Class 03

Topics

- Event Graph Basics
- Arrival Process as Event Graph
- Queuing Model
- Queuing Model by Hand

Reading

Basic Event Graph Modeling

Event Graph Basics

- Represents state transitions and scheduling as graph
- State transitions are nodes
- Each arc is a scheduling relationship

Arrival Process as Event Graph

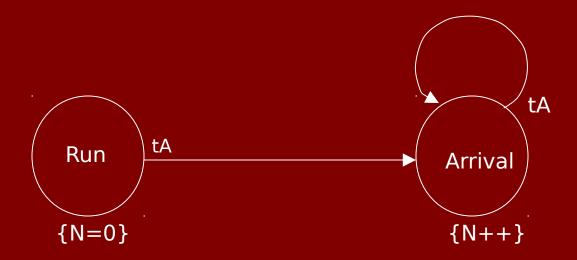
Parameter

{tA} = Interarrival Times

State

N = Cumulative Number of Arrivals

Event Graph



Multiple Server Queue

Parameters

- * k = Total # servers
- {tA} = Interarrival times
- {tS} = Service times

States

- Q = # in queue
- S = # available servers

Event Graph

